



Whitehorse Office
34A Laberge Road
Whitehorse, YT
Y1A - 5Y9

Phone: (867) 668-7672
Fax: (867) 393-3577
www.aurorageosciences.com
aurora@klondiker.com

MEMORANDUM

To: Geoff Newton
BC Gold Corp.

Date: 11 August 2008

From: Ivan Drury, Steven Kramar

Re: 2008 Induced Polarization Survey Preliminary Field Report

This memorandum is a preliminary field report describing an induced polarization (IP) survey conducted on BC Gold properties. A modified pole-dipole IP survey was conducted on the WS, Copper, and Peanut grids and a gradient IP survey was conducted on the Spear, Toe, and Pepper grids, Whitehorse Mining District, Yukon Territory. The survey was conducted from June 13 to August 5 2008 by two separate crews.

The first crew surveyed a total of 22.1 line-km on the WS grid over 20 working days and 12.8 line-km were surveyed on the Copper grid over 6 working days. There was a bear problem on the Copper grid which resulted in the Conservation officer flying in to camp to destroy the bear. The WS grid lines were not completely cut upon arrival which adversely affected production. A full survey log is attached to this report.

The second crew surveyed a total of 27.55 line-km of gradient IP on the Spear, Toe, and Pepper grids and 18 line-km of in-line modified pole-dipole IP was surveyed on the Peanut grid over a total of 25 working days. A separate bear incident on the Spear grid resulted in four stand-by days for the crew due to safety concerns. A conservation officer and RCMP officer flew into camp to investigate the incident but were not able to locate the wounded bear. The Toe grid was cut 1.5km off of where it had been planned, so after the initial survey of the Toe grid was complete a linecutting crew was flown in to re-cut the grid. The second crew returned to re-survey Toe when the re-cutting was complete. A separate full survey log for the second crew is attached to this report.

a. Crew and equipment.

The IP surveys were conducted by the following personnel:

Crew #1		
Steven Kramar	Crew chief	June 13 – July 12
Luc Harvey	Technician	June 13 – July 12
Dan Mawhinney	Helper	June 13 – July 12
Mike Krause	Helper	June 13 – July 12

Crew #2		
Ivan Drury	Crew chief	July 4 – August 5
Stacey Bishop	Helper	July 4 – August 1
Olivier Barre	Helper	July 4 – August 1
Nicolas Tremblay	Helper	July 4 – August 1
Gaetan Cyr	Helper	August 1 – August 5
Kim Ayles	Helper	August 1 – August 5
Dan MacKenzie	Helper	August 1 – August 5

The linecutting done on the Toe grid was conducted by the following personnel:

Gaetan Cyr	Linecutter / Crew chief	July 25 – July 31
Dan MacKenzie	Brusher	July 25 – July 31
Richard Smaslet	Linecutter	July 25 – August 1
Ben Power	Brusher	July 25 – August 1

The IP crews were equipped with the following instruments and equipment:

IP receiver	1	Iris Elrec 6 S/N: 120
IP receiver	1	Iris Elrec Pro S/N: 166
IP transmitter	2	GDD TxII 3.6 kW S/N: TX-242 & TX-267
Generator	2	Honda 5kW generator
IP equipment	2	Repair tools & spare IP parts
	14 km	18 gauge wire

	23	6 conductor 100m IP cables
	3	6 conductor 300m IP cables
	9	VHF handheld radios
		Geo-reels & spools, Speedy winders and spools, stainless steel electrodes
	2	Laptops with Geosoft IP packages
Other	2	4 man summer camps
	3	Garmin 72 GPS units
		Truck and driver for each move / demove
		Helicopter for camp-moves between grids

b. IP survey specifications.

The modified pole-dipole IP surveys were conducted according to the following specifications:

Array	Modified Pole-Dipole Array
Dipole spacing	100 m on all lines
Dipoles Read	N=1 through 6 (6 Channels)
Tx	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.
Stacks	Minimum 15
Rx error	5 mV/V or less, otherwise repeated several times until repeatability assured
Grid registration	Handheld GPS points at line ends and every 200m minimum averaged 60 s or until estimated accuracy < 10 m, whichever was longer. All coordinates in NAD83 UTM Zone 8N.

The gradient IP survey was conducted according to the following specifications:

Array	Gradient rectangular array
Dipole spacing	50 m on all lines

Tx	Time domain, 50% duty cycle, reversing polarity, 0.125 Hz.	
Stacks	Minimum 15	
Rx error	5 mV/V or less, otherwise repeated several times until repeatability assured	
Grid registration	Handheld GPS points at line ends and every 300m minimum averaged 60 s or until estimated accuracy < 10 m, whichever was longer. All coordinates in NAD83 UTM Zone 8N.	
Gradient Arrays read	Spear grid	800m x 1800m with current electrodes at
	1 box	379499E 6949355N and 377074E 6952267N
	Toe grid	800m x 900m with current electrodes at
	4 boxes	375928E 6953605N and 376015E 6957928N
		800m x 900m with current electrodes at
		375928E 6953605N and 376052E 6958490N
		800m x 600m with current electrodes at
		376001E 6955086N and 376044E 6959085N
		800m x 950m with current electrodes at
		376045E 6954886N and 376046E 6959757N
	Pepper Grid	600m x 900m with current electrodes at
	3 boxes	374370E 6956989N and 372491E 6960814N
		600m x 900m with current electrodes at
		374370E 6956989N and 372151E 6961537N
		600m x 900m with current electrodes at
		373628E 6958189N and 371948E 6962275N

c. Data Processing.

Data was downloaded nightly from the receiver and imported into Geosoft Oasis Montaj IP package. Every reading was inspected and readings which did not repeat were rejected from the database. Apparent resistivity was recalculated using a four electrode equation assuming a homogeneous earth. Average apparent resistivity and chargeability were calculated using a weighted mean based on the number of stacks and the standard deviation of the chargeability; except in the case of the WS and Copper grids where the number of stacks taken in each reading was not downloaded from the receiver.

The ground provided clear and consistent readings. However, in those areas that produced a relatively lower signal to noise ratio additional readings as well as greater stacks of averaged readings were taken in order to ensure repeatability. On the Peanut grid, Line 11400, and the Copper grid, Lines 104 and 106, single data points were deleted from the final database because they stood apart too greatly from the chargeability patterns noticeable on said and surrounding lines.

GPS points were dumped from the handheld units and the coordinates for the stations determined by linear interpolation between GPS units. Elevations were determined from a digital elevation model equivalent to NTS 1:50:000 maps.

For those grids surveyed with a modified pole-dipole array pseudosections of apparent resistivity, apparent chargeability, and apparent chargeability error, draped over topography, were produced with Oasis Montaj. For those grids surveyed with a gradient array separate maps for apparent resistivity, apparent chargeability, and apparent chargeability error were produced with contoured topography. Each map was then exported in .pdf format.

d. Products.

The following data files are appended to the digital version of this report:

Data	Final data in Geosoft ASCII xyz and gdb format. The GPS files have all GPS coordinates taken in NAD83, UTM zone 8N coordinates.
Images	Plan maps and pseudosections in .pdf format of apparent chargeability, apparent resistivity, & chargeability error (scale = 1:2500 or 1:5000). Grid maps with GPS coordinates in NAD83, UTM zone 8N (scale = 1:5000).
Raw	A folder with all the raw instrument dump files.
BC Gold 2008 IP Field Report.pdf A PDF of this report.	
BC Gold IP Crew #1 Survey Log.pdf	Survey log for IP crew #1
BC Gold IP Crew #2 Survey Log.pdf	Survey log for IP crew #2 and the linecutting crew

Respectfully submitted,
AURORA GEOSCIENCES LTD.

Steven Kramar

Ivan Drury